




Career Pathway Plan of Study

Health Science Cluster: Biotechnology Research and Development Pathway



Career & Technical Education
www.doe.state.in.us/cte

Indiana Department of Education

Requirements for Core 40						CTE Course Sequences for Core 40 + Technical Honors Diploma		
	GRADE	English/ Language Arts	Math	Science	Phys Ed, Health, Social Studies	Course Sequence for This Pathway (Strongly Recommended Electives & Directed Electives)	Additional Recommended Courses That Support This Pathway	SAMPLE Occupations for This Pathway
SECONDARY	9	English 9	Algebra I	Biology I	Physical Education	Integrated Health Science I* or Principles of the Biomedical Sciences	Orientation to Life and Careers Interpersonal Relationships	Occupations Requiring Less than Baccalaureate Degree ▶ Animal Services Technician ▶ Animal Services Technologist ▶ Data Entry Clerk ▶ Lab Assistant-Genetics ▶ Lab Technician ▶ Maintenance and Instrument Technician ▶ Process Technician ▶ Quality Assurance Technician ▶ Quality Control Technician Occupations Requiring Baccalaureate Degree ▶ Biochemist ▶ Bioinformatics Associate ▶ Bioinformatics Scientist ▶ Bioinformatics Specialist ▶ Biomedical Chemist ▶ Biostatistician ▶ Cell Biologist ▶ Clinical Trials Research Associate ▶ Clinical Trials Research Coordinator ▶ Geneticist ▶ Microbiologist ▶ Molecular Biologist ▶ Pharmaceutical Scientist ▶ Regulatory Affairs Specialist ▶ Research Assistant ▶ Research Associate ▶ Research Scientist ▶ Toxicologist
	10	English 10	Geometry	Chemistry or Physics or ICP	World Hist/Civil OR Geog/Hist of Wld	Integrated Health Science II* or Human Body Systems	Medical Terminology Human Development and Family Wellness	
	11	English 11	Algebra II	Anatomy & Physiology	US History	Introduction to Health Care Systems or Medical Intervention	Nutrition and Wellness Advanced Nutrition and Wellness	
	12	English 12			Govt/Econ	Health Career Practicum or Science Research	Child Development Advanced Child Development	
*Form is interactive; click on each box above to add Academic Honors courses or customize for your school or for individual students.						*meets state requirements for Health & Wellness		
POSTSECONDARY	Year 13							
	Year 14							
	Year 15							
	Year 16							

www.careerclusters.org

National project funded by the U.S. Department of Education (VO51B020001)
State project developed by Office of Career & Technical Education, Indiana Department of Education
posted 03-21-07 by Peggy Wild - contact: pwild@doe.state.in.us